

CFBF-P01-022\_ST25.txt  
SEQUENCE LISTING

<110> CBR Institute for Biomedical Research, Inc.  
Springer, Timothy A.  
Cohen, Edward H.

<120> CONFORMATION SPECIFIC ANTIBODIES

<130> CFBF-P01-022

<140> 10/589,956

<141> 2005-02-22

<160> 61

<170> PatentIn version 3.4

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Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
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Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Leu  
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 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                   85                  90                  95

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                   20                  25                  30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile  
                   35                  40                  45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
           50                  55                  60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 65                  70                  75                  80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ser  
                   85                  90                  95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Glu Val Gln Leu  
                   100                  105                  110

Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu  
           115                  120                  125

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr Val Met Trp Trp  
           130                  135                  140

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Tyr Ile Trp  
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 35 40 45

Met Val Thr Val Ser Ser Asp Ile Gln Met Thr Gln Ser Pro Ala Thr  
 50 55 60

Leu Ser Val Ser Pro Gly Glu Arg Val Thr Leu Ser Cys Thr Ala Ser  
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Gln Ser Val Asp Ser Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
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Leu Glu Ile Lys Arg Thr Glu Val Gln Leu Leu Glu Ser Gly Gly Gly  
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Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly  
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CFBF-P01-022\_ST25.txt

Phe Thr Phe Ser His Tyr Gly Met Ser Trp Val Arg Gln Ala Pro Gly  
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35 40 45

Val Ser Ser Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro  
50 55 60

Gly Gln Thr Ala Ser Val Thr Cys Ser Gly Asp Ala Leu Gly Gln Lys  
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Thr Val Leu Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln  
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Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe  
 65 70 75 80

Ser His Tyr Ser Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
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 Page 10

35

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Val Leu Gln Val Gly Asn Gly Val Ile Val Gly Ala Pro Gly Glu Gly  
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Asn Ser Thr Gly Ser Leu Tyr Gln Cys Gln Ser Gly Thr Gly His Cys  
 65 70 75 80

Leu Pro Val Thr Leu Arg Gly Ser Asn Tyr Thr Ser Lys Tyr Leu Gly  
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Met Thr Leu Ala Thr Asp Pro Thr Asp Gly Ser Ile Leu Ala Cys Asp  
 100 105 110

Pro Gly Leu Ser Arg Thr Cys Asp Gln Asn Thr Tyr Leu Ser Gly Leu  
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Cys Tyr Leu Phe Arg Gln Asn Leu Gln Gly Pro Met Leu Gln Gly Arg  
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Pro Gly Phe Gln Glu Cys Ile Lys Gly Asn Val Asp Leu Val Phe Leu  
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Phe Asp Gly Ser Met Ser Leu Gln Pro Asp Glu Phe Gln Lys Ile Leu  
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Asp Phe Met Lys Asp Val Met Lys Lys Leu Ser Asn Thr Ser Tyr Gln  
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Phe Ala Ala Val Gln Phe Ser Thr Ser Tyr Lys Thr Glu Phe Asp Phe  
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Ser Asp Tyr Val Lys Trp Lys Asp Pro Asp Ala Leu Leu Lys His Val  
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Lys Val Leu Ile Ile Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn  
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Ile Asp Ala Ala Lys Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys  
 275 280 285

His Phe Gln Thr Lys Glu Ser Gln Glu Thr Leu His Lys Phe Ala Ser  
 290 295 300

Lys Pro Ala Ser Glu Phe Val Lys Ile Leu Asp Thr Phe Glu Lys Leu  
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Lys Asp Leu Phe Thr Glu Leu Gln Lys Lys Ile Tyr Val Ile Glu Gly  
 325 330 335

Thr Ser Lys Gln Asp Leu Thr Ser Phe Asn Met Glu Leu Ser Ser Ser  
 340 345 350

Gly Ile Ser Ala Asp Leu Ser Arg Gly His Ala Val Val Gly Ala Val  
 355 360 365

Gly Ala Lys Asp Trp Ala Gly Gly Phe Leu Asp Leu Lys Ala Asp Leu  
 370 375 380

Gln Asp Asp Thr Phe Ile Gly Asn Glu Pro Leu Thr Pro Glu Val Arg  
 385 390 395 400

Ala Gly Tyr Leu Gly Tyr Thr Val Thr Trp Leu Pro Ser Arg Gln Lys  
 405 410 415

Thr Ser Leu Leu Ala Ser Gly Ala Pro Arg Tyr Gln His Met Gly Arg  
 420 425 430

Val Leu Leu Phe Gln Glu Pro Gln Gly Gly Gly His Trp Ser Gln Val  
 435 440 445

Gln Thr Ile His Gly Thr Gln Ile Gly Ser Tyr Phe Gly Gly Glu Leu  
 450 455 460

Cys Gly Val Asp Val Asp Gln Asp Gly Glu Thr Glu Leu Leu Leu Ile  
 465 470 475 480

Gly Ala Pro Leu Phe Tyr Gly Glu Gln Arg Gly Gly Arg Val Phe Ile  
 485 490 495

Tyr Gln Arg Arg Gln Leu Gly Phe Glu Glu Val Ser Glu Leu Gln Gly  
 500 505 510

Asp Pro Gly Tyr Pro Leu Gly Arg Phe Gly Glu Ala Ile Thr Ala Leu  
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Thr Asp Ile Asn Gly Asp Gly Leu Val Asp Val Ala Val Gly Ala Pro  
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CFBF-P01-022\_ST25.txt

Leu Glu Glu Gln Gly Ala Val Tyr Ile Phe Asn Gly Arg His Gly Gly  
 545 550 555 560  
 Leu Ser Pro Gln Pro Ser Gln Arg Ile Glu Gly Thr Gln Val Leu Ser  
 565 570 575  
 Gly Ile Gln Trp Phe Gly Arg Ser Ile His Gly Val Lys Asp Leu Glu  
 580 585 590  
 Gly Asp Gly Leu Ala Asp Val Ala Val Gly Ala Glu Ser Gln Met Ile  
 595 600 605  
 Val Leu Ser Ser Arg Pro Val Val Asp Met Val Thr Leu Met Ser Phe  
 610 615 620  
 Ser Pro Ala Glu Ile Pro Val His Glu Val Glu Cys Ser Tyr Ser Thr  
 625 630 635 640  
 Ser Asn Lys Met Lys Glu Gly Val Asn Ile Thr Ile Cys Phe Gln Ile  
 645 650 655  
 Lys Ser Leu Tyr Pro Gln Phe Gln Gly Arg Leu Val Ala Asn Leu Thr  
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 Tyr Thr Leu Gln Leu Asp Gly His Arg Thr Arg Arg Arg Gly Leu Phe  
 675 680 685  
 Pro Gly Gly Arg His Glu Leu Arg Arg Asn Ile Ala Val Thr Thr Ser  
 690 695 700  
 Met Ser Cys Thr Asp Phe Ser Phe His Phe Pro Val Cys Val Gln Asp  
 705 710 715 720  
 Leu Ile Ser Pro Ile Asn Val Ser Leu Asn Phe Ser Leu Trp Glu Glu  
 725 730 735  
 Glu Gly Thr Pro Arg Asp Gln Arg Ala Gln Gly Lys Asp Ile Pro Pro  
 740 745 750  
 Leu Leu Arg Pro Ser Leu His Ser Glu Thr Trp Glu Ile Pro Phe Glu  
 755 760 765  
 Lys Asn Cys Gly Glu Asp Lys Lys Cys Glu Ala Asn Leu Arg Val Ser  
 770 775 780  
 Phe Ser Pro Ala Arg Ser Arg Ala Leu Arg Leu Thr Ala Phe Ala Ser  
 785 790 795 800

Leu Ser Val Glu Leu Ser Leu Ser Asn Leu Glu Glu Asp Ala Tyr Trp  
                     805                    810                    815

Val Gln Leu Asp Leu His Phe Pro Pro Gly Leu Ser Phe Arg Lys Val  
                     820                    825                    830

Glu Met Leu Lys Pro His Ser Gln Ile Pro Val Ser Cys Glu Glu Leu  
                     835                    840                    845

Pro Glu Glu Ser Arg Leu Leu Ser Arg Ala Leu Ser Cys Asn Val Ser  
                     850                    855                    860

Ser Pro Ile Phe Lys Ala Gly His Ser Val Ala Leu Gln Met Met Phe  
  865                    870                    875                    880

Asn Thr Leu Val Asn Ser Ser Trp Gly Asp Ser Val Glu Leu His Ala  
                     885                    890                    895

Asn Val Thr Cys Asn Asn Glu Asp Ser Asp Leu Leu Glu Asp Asn Ser  
                     900                    905                    910

Ala Thr Thr Ile Ile Pro Ile Leu Tyr Pro Ile Asn Ile Leu Ile Gln  
                     915                    920                    925

Asp Gln Glu Asp Ser Thr Leu Tyr Val Ser Phe Thr Pro Lys Gly Pro  
  930                    935                    940

Lys Ile His Gln Val Lys His Met Tyr Gln Val Arg Ile Gln Pro Ser  
  945                    950                    955                    960

Ile His Asp His Asn Ile Pro Thr Leu Glu Ala Val Val Gly Val Pro  
                     965                    970                    975

Gln Pro Pro Ser Glu Gly Pro Ile Thr His Gln Trp Ser Val Gln Met  
                     980                    985                    990

Glu Pro Pro Val Pro Cys His Tyr Glu Asp Leu Glu Arg Leu Pro Asp  
                     995                    1000                    1005

Ala Ala Glu Pro Cys Leu Pro Gly Ala Leu Phe Arg Cys Pro Val  
  1010                    1015                    1020

Val Phe Arg Gln Glu Ile Leu Val Gln Val Ile Gly Thr Leu Glu  
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Leu Val Gly Glu Ile Glu Ala Ser Ser Met Phe Ser Leu Cys Ser

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1045

Ser Leu 1055 Ser Ile Ser Phe Asn 1060 Ser Ser Lys His Phe 1065 His Leu Tyr

Gly Ser 1070 Asn Ala Ser Leu Ala 1075 Gln Val Val Met Lys 1080 Val Asp Val

Val Tyr 1085 Glu Lys Gln Met Leu 1090 Tyr Leu Tyr Val Leu 1095 Ser Gly Ile

Gly Gly 1100 Leu Leu Leu Leu Leu 1105 Leu Ile Phe Ile Val 1110 Leu Tyr Lys

Val Gly 1115 Phe Phe Lys Arg Asn 1120 Leu Lys Glu Lys Met 1125 Glu Ala Gly

Arg Gly 1130 Val Pro Asn Gly Ile 1135 Pro Ala Glu Asp Ser 1140 Glu Gln Leu

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Cys Arg Glu Cys Ile Glu Ser Gly Pro Gly Cys Thr Trp Cys Gln Lys  
35 40 45

Leu Asn Phe Thr Gly Pro Gly Asp Pro Asp Ser Ile Arg Cys Asp Thr  
50 55 60

Arg Pro Gln Leu Leu Met Arg Gly Cys Ala Ala Asp Asp Ile Met Asp  
65 70 75 80

Pro Thr Ser Leu Ala Glu Thr Gln Glu Asp His Asn Gly Gly Gln Lys  
Page 15

Gln Leu Ser Pro Gln Lys Val Thr Leu Tyr Leu Arg Pro Gly Gln Ala  
100 105 110

Ala Ala Phe Asn Val Thr Phe Arg Arg Ala Lys Gly Tyr Pro Ile Asp  
115 120 125

Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Leu Asp Asp Leu Arg  
130 135 140

Asn Val Lys Lys Leu Gly Gly Asp Leu Leu Arg Ala Leu Asn Glu Leu  
145 150 155 160

Thr Glu Ser Gly Arg Ile Gly Phe Gly Ser Phe Val Asp Lys Thr Val  
165 170 175

Leu Pro Phe Val Asn Thr Ile Ile Pro Asp Lys Leu Arg Asn Pro Cys  
180 185 190

Pro Asn Lys Glu Lys Glu Cys Gln Pro Pro Phe Ala Phe Arg His Val  
195 200 205

Leu Lys Leu Thr Asn Asn Ser Asn Gln Phe Gln Thr Glu Val Gly Lys  
210 215 220

Gln Leu Ile Ser Gly Asn Leu Asp Ala Pro Glu Gly Gly Leu Asp Ala  
225 230 235 240

Met Met Gln Val Ala Ala Cys Pro Glu Glu Ile Gly Trp Arg Asn Val  
245 250 255

Thr Arg Leu Leu Val Phe Ala Thr Asp Asp Gly Phe His Phe Ala Gly  
260 265 270

Asp Gly Lys Leu Gly Ala Ile Leu Thr Pro Asn Asp Gly Arg Cys His  
275 280 285

Leu Glu Asp Asn Leu Tyr Lys Arg Ser Asn Glu Phe Asp Val Pro Ser  
290 295 300

Val Gly Gln Leu Ala His Lys Leu Ala Glu Asn Asn Ile Gln Pro Ile  
305 310 315 320

Phe Ala Val Thr Ser Arg Met Val Lys Thr Tyr Glu Lys Leu Thr Glu  
325 330 335



Ile Ile Pro Lys Ser Ala Val Gly Glu Leu Ser Glu Asp Ser Ser Asn  
 340 345 350

Val Val His Leu Ile Lys Asn Ala Tyr Asn Lys Leu Ser Ser Arg Val  
 355 360 365

Phe Leu Asp His Asn Ala Leu Pro Asp Thr Leu Lys Val Thr Tyr Asp  
 370 375 380

Ser Phe Cys Ser Asn Gly Val Thr His Arg Asn Gln Pro Arg Gly Asp  
 385 390 395 400

Cys Asp Gly Val Gln Ile Asn Val Pro Ile Thr Phe Gln Val Lys Val  
 405 410 415

Thr Ala Thr Glu Cys Ile Gln Glu Gln Ser Phe Val Ile Arg Ala Leu  
 420 425 430

Gly Phe Thr Asp Ile Val Thr Val Gln Val Leu Pro Gln Cys Glu Cys  
 435 440 445

Arg Cys Arg Asp Gln Ser Arg Asp Arg Ser Leu Cys His Gly Lys Gly  
 450 455 460

Phe Leu Glu Cys Gly Ile Cys Arg Cys Asp Thr Gly Tyr Ile Gly Lys  
 465 470 475 480

Asn Cys Glu Cys Gln Thr Gln Gly Arg Ser Ser Gln Glu Leu Glu Gly  
 485 490 495

Ser Cys Arg Lys Asp Asn Asn Ser Ile Ile Cys Ser Gly Leu Gly Asp  
 500 505 510

Cys Val Cys Gly Gln Cys Leu Cys His Thr Ser Asp Val Pro Gly Lys  
 515 520 525

Leu Ile Tyr Gly Gln Tyr Cys Glu Cys Asp Thr Ile Asn Cys Glu Arg  
 530 535 540

Tyr Asn Gly Gln Val Cys Gly Gly Pro Gly Arg Gly Leu Cys Phe Cys  
 545 550 555 560

Gly Lys Cys Arg Cys His Pro Gly Phe Glu Gly Ser Ala Cys Gln Cys  
 565 570 575

Glu Arg Thr Thr Glu Gly Cys Leu Asn Pro Arg Arg Val Glu Cys Ser  
 580 585 590

CFBF-P01-022\_ST25.txt

Gly Arg Gly Arg Cys Arg Cys Asn Val Cys Glu Cys His Ser Gly Tyr  
595 600 605

Gln Leu Pro Leu Cys Gln Glu Cys Pro Gly Cys Pro Ser Pro Cys Gly  
610 615 620

Lys Tyr Ile Ser Cys Ala Glu Cys Leu Lys Phe Glu Lys Gly Pro Phe  
625 630 635 640

Gly Lys Asn Cys Ser Ala Ala Cys Pro Gly Leu Gln Leu Ser Asn Asn  
645 650 655

Pro Val Lys Gly Arg Thr Cys Lys Glu Arg Asp Ser Glu Gly Cys Trp  
660 665 670

Val Ala Tyr Thr Leu Glu Gln Gln Asp Gly Met Asp Arg Tyr Leu Ile  
675 680 685

Tyr Val Asp Glu Ser Arg Glu Cys Val Ala Gly Pro Asn Ile Ala Ala  
690 695 700

Asn Gly Gly Thr Val Ala Gly Ile Val Leu Ile Gly Ile Leu Leu Leu  
705 710 715 720

Val Ile Trp Lys Ala Leu Ile His Leu Ser Asp Leu Arg Glu Tyr Arg  
725 730 735

Arg Phe Glu Lys Glu Lys Leu Lys Ser Gln Trp Asn Asn Asp Asn Pro  
740 745 750

Leu Phe Lys Ser Ala Thr Thr Thr Val Met Asn Pro Lys Phe Ala Glu  
755 760 765

Ser

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Gly Asn Val Asp Leu Val Phe Leu Phe Asp Gly Ser Met Ser Leu Gln  
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Pro Asp Glu Phe Gln Lys Ile Leu Asp Phe Met Lys Asp Val Met Lys  
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CFBF-P01-022\_ST25.txt

Lys Leu Ser Asn Thr Ser Tyr Gln Phe Ala Ala Val Gln Phe Ser Thr  
 35 40 45  
 Ser Glu Glu Glu Glu Glu Glu Glu Glu Asx Thr Thr Ser His His His  
 50 55 60  
 His His His His His His His His His His His His His His Thr Thr  
 65 70 75 80  
 Thr Ser Ser Glu Glu Glu Glu Glu Glu Glu Ser Ser Ser Tyr Lys  
 85 90 95  
 Thr Glu Phe Asp Phe Ser Asp Tyr Val Lys Arg Lys Asp Pro Asp Ala  
 100 105 110  
 Leu Leu Lys His Val Lys His Met Leu Leu Leu Thr Asn Thr Phe Gly  
 115 120 125  
 Ala Ile Asn Tyr Val Ala Thr Glu Val Phe Arg Glu Glu Leu Gly Ala  
 130 135 140  
 Glu Glu Glu Ser Asx His His His His His His His Thr Thr His His  
 145 150 155 160  
 His His Thr Ser Ser Asx His His His His His His His His His His  
 165 170 175  
 His Thr Thr Thr Gly Gly Gly Thr Arg Pro Asp Ala Thr Lys Val Leu  
 180 185 190  
 Ile Ile Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn Ile Asp Ala  
 195 200 205  
 Ala Lys Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys His Phe Gln  
 210 215 220  
 Thr Lys Glu Ser Gln Glu Thr Leu His Lys Thr Thr Ser Glu Glu Glu  
 225 230 235 240  
 Glu Glu Glu Glu Glu Ser Ser Gly Gly Gly Thr Thr Ser Glu Glu Glu  
 245 250 255  
 Glu Glu Glu Ser Ser Ser Thr Thr Thr Gly Gly Gly Gly Thr Thr Phe  
 260 265 270  
 Ala Ser Lys Pro Ala Ser Glu Phe Val Lys Ile Leu Asp Thr Phe Glu  
 275 280 285

Lys Leu Lys Asp Leu Phe Thr Glu Leu Gln Lys Lys Ile Thr Ser Ser  
290 295 300

Ser His His His His Glu Glu Glu Thr Thr Thr Thr Thr Thr Thr  
305 310 315 320

Thr Thr Thr

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<220>  
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<223> xaa can be any naturally occurring amino acid

<400> 33

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Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Thr Gly Lys Ala Pro Lys Ala Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Leu Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

xaa Ala Ala xaa Ala Ala Ser Phe Gly Gln Gly Thr Lys Val Glu Ile  
100 105 110

Lys Arg Thr  
115

<210> 34  
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<400> 34

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro  
 1 5 10 15

Gly Glu Arg Val Thr Leu Ser Cys Thr Ala Ser Gln Ser Val Asp Ser  
 20 25 30

Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
 35 40 45

Val Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser  
 50 55 60

Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Thr Ile Asp Ser Leu Gln  
 65 70 75 80

Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Tyr Asn Lys Trp Pro Pro  
 85 90 95

Tyr Ser Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr  
 100 105 110

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<400> 35

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Ser Val Ser Pro Gly Gln Thr Ala Ser Val Thr Cys Ser Gly Asp Ala  
20 25 30

Leu Gly Gln Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser  
35 40 45

Pro Val Leu Val Ile Phe Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro  
50 55 60

Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile  
65 70 75 80

Ser Gly Thr Gln Ala Val Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp  
85 90 95

Asp Thr Thr Xaa Ala Ala Ala Tyr Val Gly Thr Gly Thr Lys Val Thr  
100 105 110

Val Leu

<210> 36  
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<400> 36

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Thr Ile Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Phe Asp Ile Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
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<400> 37

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 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Leu Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Lys His Tyr Ser Tyr Xaa Ala Ala Ala Met Asp Val Trp Gly Gln  
 100 105 110

Gly Thr Thr Val Thr Val Ser Ser  
 115 120

<210> 38  
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<400> 38

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 Page 23

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20 25 30  
Ser Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45  
Ser Tyr Ile Gly Ser Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60  
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80  
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95  
Ala Arg Gly Xaa Ala Ala Thr Tyr Asn Thr Ser Pro Phe Asp Tyr Trp  
100 105 110  
Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
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acagggaaaag cccctaaggc cctgatctat ctgcatccag tttgcaaagt ggggtcccat 180  
caaggttcag tggcagtggg tctgggacag atttcaactct caccatcagt agtctgcaac 240  
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ggaccaaggt ggaaatcaaa 320

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<212> DNA  
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cctggccagg ctcccagact cctcgtctat ggtgcatcca ctagggccac tgggtgtcca 180  
gccaggttca gtggcagtgg gtctgggaca gcgttcactc tcaccatcga cagcctgcag 240



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<210> 41  
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 <400> 41

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 35 40 45  
 Ala Cys Ala Gly Cys Cys Ala Gly Cys Gly Thr Cys Ala Cys Thr Thr  
 50 55 60  
 Gly Cys Thr Cys Thr Gly Gly Ala Gly Ala Thr Gly Cys Ala Thr Thr  
 65 70 75 80  
 Gly Gly Gly Ala Cys Ala Ala Ala Ala Ala Thr Ala Thr Gly Cys Thr  
 85 90 95  
 Thr Cys Cys Thr Gly Gly Thr Ala Thr Cys Ala Ala Cys Ala Gly Ala  
 100 105 110  
 Ala Gly Cys Cys Ala Gly Gly Cys Cys Ala Gly Thr Cys Cys Cys Cys  
 115 120 125  
 Thr Gly Thr Ala Cys Thr Gly Gly Thr Cys Ala Thr Cys Thr Thr Thr  
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 Cys Ala Ala Gly Ala Thr Thr Cys Cys Ala Ala Gly Cys Gly Gly Cys  
 145 150 155 160  
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 165 170 175  
 Gly Cys Gly Gly Thr Thr Cys Thr Cys Thr Gly Gly Cys Thr Cys Cys  
 180 185 190  
 Ala Ala Thr Thr Cys Thr Gly Gly Gly Ala Ala Cys Ala Cys Ala Gly  
 195 200 205

Cys Cys Ala Cys Thr Cys Thr Gly Ala Cys Cys Ala Thr Cys Ala Gly  
 210 215 220

Cys Gly Gly Gly Ala Cys Cys Cys Ala Gly Gly Cys Thr Gly Thr Gly  
 225 230 235 240

Gly Ala Thr Gly Ala Gly Gly Cys Cys Gly Ala Cys Thr Ala Thr Thr  
 245 250 255

Ala Thr Thr Gly Thr Cys Ala Gly Gly Cys Gly Thr Gly Gly Gly Ala  
 260 265 270

Cys Ala Cys Thr Ala Cys Ala Gly Cys Thr Thr Ala Thr Gly Thr Cys  
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Thr Thr Cys Gly Gly Ala Ala Gly Cys Thr Gly Gly Gly Ala Cys Cys  
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Ala Ala Gly Gly Thr Cys Ala Cys Cys Gly Thr Cys Cys Thr Ala  
 305 310 315

<210> 42  
 <211> 360  
 <212> PRT  
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<400> 42

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Thr Gly Thr Thr Cys Ala Gly Cys Cys Thr Gly Gly Thr Gly Gly Thr  
 35 40 45

Thr Cys Thr Thr Thr Ala Cys Gly Thr Cys Thr Thr Thr Cys Thr Thr  
 50 55 60

Gly Cys Gly Cys Thr Gly Cys Thr Thr Cys Cys Gly Gly Ala Thr Thr  
 65 70 75 80

Cys Ala Cys Thr Thr Thr Cys Thr Cys Thr Cys Gly Thr Thr Ala Cys  
 85 90 95

Gly Thr Thr Ala Thr Gly Thr Gly Gly Thr Gly Gly Gly Thr Thr Cys  
 100 105 110

Gly Cys Cys Ala Ala Gly Cys Thr Cys Cys Thr Gly Gly Thr Ala Ala  
 115 120 125  
 Ala Gly Gly Thr Thr Thr Gly Gly Ala Gly Thr Gly Gly Gly Thr Thr  
 130 135 140  
 Thr Cys Thr Thr Ala Thr Ala Thr Cys Thr Gly Gly Cys Cys Thr Thr  
 145 150 155 160  
 Cys Thr Gly Gly Thr Gly Gly Cys Ala Ala Thr Ala Cys Thr Thr Ala  
 165 170 175  
 Thr Thr Ala Thr Gly Cys Thr Gly Ala Cys Thr Cys Cys Gly Thr Thr  
 180 185 190  
 Ala Ala Ala Gly Gly Thr Cys Gly Cys Thr Thr Cys Ala Cys Thr Ala  
 195 200 205  
 Thr Cys Thr Cys Thr Ala Gly Ala Gly Ala Cys Ala Ala Cys Thr Cys  
 210 215 220  
 Thr Ala Ala Gly Ala Ala Thr Ala Cys Thr Cys Thr Cys Thr Ala Cys  
 225 230 235 240  
 Thr Thr Gly Cys Ala Gly Ala Thr Gly Ala Ala Cys Ala Gly Cys Thr  
 245 250 255  
 Thr Ala Ala Gly Gly Gly Cys Thr Gly Ala Gly Gly Ala Cys Ala Cys  
 260 265 270  
 Thr Gly Cys Ala Gly Thr Cys Thr Ala Cys Thr Ala Thr Thr Gly Thr  
 275 280 285  
 Gly Cys Gly Ala Gly Thr Ala Gly Cys Thr Ala Cys Gly Ala Thr Thr  
 290 295 300  
 Thr Thr Thr Gly Gly Ala Gly Thr Ala Ala Thr Gly Cys Thr Thr Thr  
 305 310 315 320  
 Thr Gly Ala Thr Ala Thr Cys Thr Gly Gly Gly Gly Cys Cys Ala Ala  
 325 330 335  
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 Thr Cys Thr Cys Ala Ala Gly Cys

355

360

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 cctggtaaag gtttggagtg ggtttctgtt atctctcctt ctggtggccg tactctttat 180  
 gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240  
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<210> 44  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

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 gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagggacc 300  
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 <212> PRT  
 <213> Homo sapiens

<400> 45

Ala Glu Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
 1 5 10 15

Ser

<210> 46  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 46

Tyr Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser  
 1 5 10 15

Ser

<210> 47  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 47

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser  
 1 5 10 15

<210> 48  
 <211> 29  
 <212> PRT  
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<400> 48

Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Phe  
 1 5 10 15

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
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<210> 49  
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 <212> PRT  
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<400> 49

Asn Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 1 5 10 15

<210> 50  
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 <212> PRT  
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<400> 50

Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val  
 1 5 10 15

Thr Val Ser Ser  
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<210> 51  
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 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 51

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
 20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Ser Ser Tyr Asp Tyr Trp Ser Asn Ala Phe Asp Ser Trp Gly Gln  
 100 105 110

Gly Thr Met Val Thr Val Ser Ser  
 115 120

&lt;210&gt; 52

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 52

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
 20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

CFBF-P01-022\_ST25.txt

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Phe Asp Phe Trp Ser Asn Ala Phe Asp Met Trp Gly Gln  
100 105 110

Gly Thr Met val Thr val Ser Ser  
115 120

<210>	53
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<400> 53

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Leu Trp Ser Asn Ala Phe Asp Lys Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

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<400> 54

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
Page 31

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Asn Ser Tyr Asp Phe Arg Ser Asn Ala Phe Ala Val Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
115 120

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<400> 55

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Tyr Ala Asn Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser



115

120

<210> 56  
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 <212> PRT  
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<400> 56

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
 20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Ser Ser Tyr Asp Leu Trp Ser Tyr Ala Phe Glu Ile Trp Gly Gln  
 100 105 110

Gly Thr Met Val Thr Val Ser Ser  
 115 120

<210> 57  
 <211> 120  
 <212> PRT  
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<400> 57

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
 20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

CFBF-P01-022\_ST25.txt

Lys Gly Arg Phe Thr Leu Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
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Ala Asn Ser Phe Asp Phe Trp Ser Asn Ala Phe Glu Leu Trp Gly Gln  
100 105 110

Gly Thr Met Val Thr Val Ser Ser  
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<212> DNA  
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gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac 240  
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agcacagccg ccctgggctg cctgggtcaag gactacttcc ccgaaccggt gacggtgtcg 480  
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<212> PRT  
<213> Homo sapiens

<400> 60

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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Tyr  
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile  
35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
65 70 75 80

CFBF-P01-022\_ST25.txt

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ser  
85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala Pro  
100 105 110

Ser Val Phe Leu Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr  
115 120 125

Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys  
130 135 140

Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu  
145 150 155 160

Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser  
165 170 175

Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala  
180 185 190

Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe  
195 200 205

Asn Arg Gly Glu Cys  
210

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<211> 446  
<212> PRT  
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<400> 61

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Val Met Trp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Trp Pro Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

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Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ser Ser Tyr Asp Phe Trp Ser Asn Ala Phe Asp Ile Trp Gly Gln  
100 105 110

Gly Thr Asn Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
115 120 125

Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu  
130 135 140

Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp  
145 150 155 160

Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu  
165 170 175

Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser  
180 185 190

Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro  
195 200 205

Ser Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro  
210 215 220

Cys Pro Ser Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe  
225 230 235 240

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro  
245 250 255

Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val  
260 265 270

Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr  
275 280 285

Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val  
290 295 300

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys  
305 310 315 320

Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser  
325 330 335

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro  
                   340                  345                  350

Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val  
                   355                  360                  365

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly  
           370                  375                  380

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp  
   385                  390                  395                  400

Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp  
                   405                  410                  415

Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His  
                   420                  425                  430

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys  
           435                  440                  445

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